

BREITMAN, V.M.
R-2429. Kinetics of real chemical processes.
Zhur. Fiz. Khim., 18, p.356-363, 1944, (10p.)

Kazarnovskii, Ya. S. and Levchenko, G. T.
COMPRESSIBILITY OF METHANE AND METHANE-
AMMONIA MIXTURES AT HIGH TEMPERATURES
AND PRESSURES. [1961] 4p. 7 refs.
Order from OTS or SLA \$1.10 61-18226

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1944,
v. 18, p. 380-382.

DESCRIPTORS: *Methanes, *Ammonia, High pressure
research, High temperature research, Equations of
state.

The compressibility of methane under pressures of from
86.6 to 1400 atm was determined at 250 and 300°C with
a limit of error of up to $\pm 0.5\%$. Binary mixtures of
methane and ammonia of four compositions, i.e., con-
taining 32.84, 39.58, 53.85 and 55.72% ammonia, were
determined for pressures ranging from 82 to 1675 atm
and temperatures from 150 to 300°C with a precision of
up to $\pm 1\%$. The data obtained are quite satisfactorily
(Chemistry--Physical, TT, v. 6, no. 7) (over)

61-18226

I. Kazarnovskii, Ya. S.
II. Levchenko, G. T.

18226

Office of Technical Services

Mechanism of the Oxidation of NO, by M.
S. Furman, 4 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XVIII,
1944, pp 386-388.

SLA R-2430

Sci

Aug 58

72,127

Kinetics of the N_2H_4 Dissociation of Ammonia on
Iron Catalysts, by G. P. Korneichuk, I. A. Khizmatov,
12 pp UNCLASSIFIED

RUSSIAN, per, Zhur Fiz Khimii, Vol XVIII, No 9,
1944, pp 389-394.

SLA R-2431
Sci-Tr Center
EX NT-1022

Scientific - Chemistry

15,362

Levchenko, G. T.
THERMODYNAMIC PROPERTIES OF COMPRESSED
METHANE [Termodinamicheskie Svoistva Szhato
Metana]. [1961] 9p. 16 refs.
Order from OTS or SLA \$1.10

61-18227

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1944,
v. 18 [no. 10] p. 453-465.
Another translation is available from SLA as RT-1021.

DESCRIPTORS: *Methanes, *Thermochemistry, High
pressure research, Equations of state.

The fugacity, heat capacities at constant pressure and
volume, the heat content, entropy, free energy, maxi-
mum work and internal energy were calculated for
methane within the temperature interval of from -70 to
+200°C. and pressures of from 10 to 1,000 atm. Mollier
diagrams were constructed for methane. The values
calculated by the author were correlated with calculated
and experimental data reported in the literature.
(Author)

61-18227

I. Levchenko, G. T.

101811

Office of Technical Services

(Chemistry--Physical,
TT, v. 6, no. 7)

The Cathodic Behavior of Iron in Neutral
Solutions, by A. I. Krasil'shchikov

RUSSIAN, per, Zhur Fiz Khim, Vol XVIII, 1944,
pp 537-546.

AEC Tr 1112

Scientific - Physics

012-103-17-248

KROTOV, T. V.
R-1918. Theoretical considerations of the process
of formation of an anodic film on aluminum. Zhur. Fiz.
Khim., 18, no.9, p.1550-1554 (7p.)

Zhur Fiz Khim, XIX, 15-47, (1945)

Oxidation of Hydrogen Sulfide from the Point of View
of the Kinetics of the Intermediate Reaction Products

N. M. Emanuel (Inst of Chem Physics, USSR, Acad Sci)

(Wilson Dam 552)

Zhur Fiz Khim XIX, ~~48-51~~ 48-71 (1945)

The Principle of Ensemble and Aggravation in Catalysis.
I. The Method of Fluctuation Analysis of Active Centers of
Catalysis in the Range of Subcrystalline Structures.

N. I. Kobozev, L. A. Nikolayev, I. A. Zubovich, and Yu. M.
Gol'dfel'd (Lab of Catalysis and Gas Electrochem, Moscow
State (Lomonosov) University)

(Wilson Dam 553)

Zhur Fiz Khim XIX, 72-82 (1945)

Partial Pressures in Real Gas Mixtures

M. Temkin (Karpov Physical Chem Inst)

(Wilson Dam 645)

JOURNAL OF PHYSICAL CHEMISTRY, 1945, VOL. 19,
NO. 3: [TABLE OF CONTENTS AND SELECTED
ABSTRACTS]. 11962] Sp. 5 refs.
Order from OTS or SLA \$1.10

62-10840

Abstract trans. of Zhurnal Fizicheskoi Khimii (USSR)
1945, v. 19, no. 3, p. 142-149.

DESCRIPTORS: *Physical chemistry, *Abstracts,
Catalysts, Catalysis; Classification, Hydrocarbons,
Colloids, Electrical conductance, Electrochemistry.

Contents:

Principle of ensemble and aggravation in catalysis. II.
Principle of aggravation and structural classification
of catalysts, by N. I. Kobozev

Physicochemical investigation of emulsions of poly-
merizing hydrocarbons.

I. Conductometric method of sedimentation analysis of
emulsions, by A. I. Yurzenko.

62-10840

- I. Title: Principle...
- II. Title: Conductometric...

(Chemistry--Physical,
TT, v. 9, no. 9)

Office of Technical Services

A New Type of Chemical Compounds, "Cyanyls", by B. F. Ormont, 6 pp.

RUSSIAN, no per, Zhur Fiz Khim, Vol XIX, No 3, 1945, pp 167, 168.

Sci Tr Ctr RT-3485

Scientific - Chemistry

32,873

May 56 CTS/dex

Zh. Fiz. Khim. 178-184 (1945)
Ye. Kondrat'yev, V. Kondrat'yev

Thermal Decomposition of Hydrogen
Peroxide Vapor

(ACSIH Trans (413))

Zhur Fiz Khim, XIX, 314-22 (1945)

Thermodynamic Properties of Compressed Nitrogen-Hydrogen
Mixtures

I. R. Krichevskiy, Ya. S. Kazarnovskiy and G. T. Lev-
chenko (State Nitrogen Inst, Moscow)

(Wilson Dam 347)

SLR R 2779

Thermodynamic Properties of a Nitrogen-Hydrogen-
Ammonia Mixture, by Y. S. Kazarnovskiy, 12 pp.'

RUSSIAN, per, Zhur Fiz Khim, Vol XIX, No 7-8, 1945,
pp 392-404.

Assoc Tech Serv

Jul 58

69, 980

Dynamics of Gas Formation in a Layer of Carbon,
by Kh. I. Kolodtsev, 24 pp.

RUSSIAN, no per, Zhur Fiz Khim, Vol XIX, No 9,
1945.

CIA/TID X 2085

Sci - Physics
- Chemistry
Jun 56 CTS/dex

35,646

The Discrete Structure of Charge in a Double Layer, by B. V. Ershler, 24 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XX, No 7, 1945,
pp 679-692. 9093458

ANC HP Tr-869

Sci - Phys, Chem
May 62

196,763

The Topological (Dynadic) Analysis of Molecular
Crystals, by A. I. Kitaigorodskii.
RUSSIAN, per, Zh. Fiz. Khim, Vol 19, No 10/11,
1945, pp 523-528.
NLL 5828.4F (11825)

Sci - Chem
Sept. 67

340,358

On the Non-Stationary Theory of Thermal Ex-
plosion, by D. A. Frank-Kamenetskiy,
RUSSIAN, per, Zhurnal Fizicheskoy Khimii, Vol
xx, 1946.

Army Mat Cld

SI-6-76-141

Sci-Phys

mar 67

320,172

Molten Salt Mixtures as Ionic Solutions, by M.
Temkin.

RUSSIAN, 3 per, Zhur Fiz Khim, Vol XX, No 1,
1946, pp 105-110.

HD 2357

Sci - Chem

\$2.70

Jul 61

A 11896

Samarin, A. M. and Shvartsman, I. A.
IONIC NATURE OF MELTS AND SOLUBILITY OF
OXIDES AND SULFIDES THEREIN. [1963] 10p
Order from K-H \$10.00 K-H 5141 a

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1946,
v. 20, no. 2, p. 189-193.

DESCRIPTORS: *Sulfides, *Oxides, Solubility, Melting,
Ions.

(Chemistry--Physical, TT, v. 10, no. 12)

63-22798

I. Samarin, A. M.
II. Shvartsman, I. A.
III. K-H-5141-a
IV. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

OTS II-64-16467

Office of Technical Services

On Absolute Rates of Dissolving, by N. Ya. Euben,
D. A. Frank-Kamenetskiy, 15 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XX, No 3,
1946, pp 225-238.

AFR 473

Sci Mu Lib Tr 55/0715

24,359

AT-2635

Scientific - Physics

Jun 55 CT8

Photogalvanic Processes on a Gold Electrode,
by V. I. Veselovskii.
RUSSIAN, per, Zh. Fiz. Khim., Vol 20, No 3,
1946, pp 269-296.
NLL 5828.4F (11823)

Sci - Chem
Sept. 67

340,144

Exchange of Ions Between Solid and Liquid
Phases. III., by E. N. Gapon, UNCLASSIFIED

RUSSIAN, per, Zhur Fiz Khim, Vol XX, No 3,
1946, pp 297-302.

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20,546

Scientific - Physics Jan 55 CTS
Indian National Sci Doc Center, Natl Physical Lab mfr
of India, Hillside Rd., New Delhi, 12, India.

Dielectric Properties and Electrostriction of
Solutions of Electrolytes, by O. K. Davtyan.
RUSSIAN, per, Zh. Fiz. Khim. Vol 20, No 3.
1946, pp 315-324.
NLL 5828.4F (11820)

Sci - Chem

~~Apr.~~ 67

Sept.

338,690

(NY-4842/1)

On the Theory of Hydrocarbon Combustion, by V.
Kondrat'yev, 25 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XX, No 4/5,
1946, pp 345-354.

JPRS 7511

Sci - Chem

Mar 61

141,980

Surface Tension of Metals, by A. N. Breger, A. A.
Zhukhovitskii.

RUSSIAN, ^e Zhur Fiz Khim, Vol XX, No 4/5,
1946, pp 355-362.

Brutcher, Tr No 3582
\$4.80

USSR

Sci - Minerals/Metals
Electronics

29,114

The Mechanism of the Pulsating Combustion of
Explosive Systems, by K. K. Andreev, 5 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XX, No 4-5,
1946, pp 365-~~366~~ 368.

Sci Trans Center RT-565

Physics
Scientific - ~~Mathematics~~
CTS/DEX

10,934

Kinetics of Ammonia Synthesis on Tungsten, by
S. Kiperman, M. S. Tunkin.

RUSSIAN, per, Zhurnal Fiz Khim, Vol 20, 1946,
pp 369-378.

*AEC

Sci - Materials

Jun 67

The Velocity of Σ Dissolution of NaCl and KCl
Crystals, by A. B. Zdanovskii, UNCLASSIFIED

RUSSIAN, per, Zhur Fiz Khim, 1946, Vol 20, No 4,5,
pp 379-386.

Sci Mus Lib No 52/2944

The Kinetics of Ammonia Synthesis on Molybdenum
Catalyst, by S. Kiperman and M. Tomkin, 16 pp.
RUSSIAN, per, Zh. Fiz. Khim., Vol 20, 1946.
pp 396-378.
P911305267
AEC IS-Trans-68

Sci/Materials
Nov 67

342,398

Baranov, M. K.
THE EVAPORATION OF SOLID BODIES, tr. by
Ingelborg V. Baker. 16 May 63 [9]p. 10 refs.
RSIC-13. AD-404 919
Order from OTS or SLA \$1.10

63-19563

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1946,
v. 20, p. 399-402.

DESCRIPTORS: Solids, *Ice, *Phenols, *Benzenes,
*Camphors, Iodine, *Evaporation, Vapor pressure,
Test equipment.

Measurements were performed on the accommodation
coefficients for ice, solid phenol, solid benzene and
camphor.

(Physics--Thermodynamics, TT, v. 10, no. 7)

63-19563

I. Baranov, M. K.
II. RSIC-13
III. Army Missile Command,
Redstone Arsenal, Ala.
IV. AD-404 919

Office of Technical Services

Vaporization of Solids, by M. K. Baranav, 8 pp.

Full translation.

RUSSIAN, per, Zhur Fiz Khim, Vol XX, No 4-5,
1946, pp 399-402.

CIA/TDD/X-993

Scientific - Chemistry

Aug 53 CTS/DEX

NLE M. 2247

4578

Molecular State of Electrolytes in Concentrated
Solutions, by E. Ya. Gorenbein
RUSSIAN, per, Zh. Fiz. Khim., Vol 20, No 6,
1946, pp 547-552.
NLL 5828.4F (11860)

Sci - Chem

~~Aug 67~~

Sept.

338,654

On the Diffusion of Electrolytes, by O. K.
Davtyan.

RUSSIAN, per, Zhur Fiz Khim, Vol XX, No 6,
1946, pp 575-577

DSIR LIU M.1654
(loan)

Sci - Chem

SLA 100-100000, 7

128,826

Oct 60

The Crystal Lattice Spacing of Solid Solutions of
Iron-Silicon-Aluminium on an Iron Basis, by Ya. P.
Selisskiy, 9 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XX, No 7, 1946,
pp 597-604.

CIA/FDD/z-88

Scientific - Minerals/Metals
CTS/DEX

10, 114

The Mechanism of the Thermal Ignition of Explosives,
by A. F. Belyaev, 21 pp UNCLASSIFIED

RUSSIAN, per, Zhur Fiz Khim, Vol XX, No 7, 1946,
pp 613-622

Sci Tr Center
RT 1007

Scientific - ~~Physics~~ Chemistry

15,369

On Theory of the Coagulation and Enlargement of
Particles in Sols. II. The Kinetics of Particle
Enlargement in the "distillation" of a Substance
Through the Homogeneous Phase, by O. M. Todes, p
19 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol 20, pt. 7, 1946, pp 629-644.

~~51/2653~~

Sci Museum Lib No 51/265²-London

7145/116 # 3812
1352017

On the Diffusion Potential of Real Electrolyte
Solutions, by O. K. Davtyan.

RUSSIAN, per, Zhur Fiz Khim, Vol XX, 1946,
pp 645-647.

Dept of Interior
Tr No 197

Sci

Jan 63

Investigation of the fall-off of hydrogen
over-voltage at a spongy lead electrode in
sulphuric acid, by Ya. M. Kolotyrkin,
RUSSIAN, per, Zhurnal Fizicheskoi Khimii,
Vol 20, 1946, No 7, pp 667-677
NLL RPS 3081
(ON LOAN OR PURCHASE)

Sci - Chem
May 67

325,862

The Discret Structure of Charge in a Double Layer,
by B. V. Ershler. 31pp

RUSSIAN, per, Zhur Fiz Khim, Vol XX, No 7, 1946,
pp 679-692.

*AEC NP Tr-869

Sci - Phys, Chem
Jan 62

OTS 62-23295

Polarographic Study of Columbiua-Nitric Acid
Solution, by A. G. Stromberg, L. M. Reinus.
RUSSIAN, per, Zh. Fiz. Khim, Vol 20, No 7, 1946,
pp 693-705.
NLL 5828.4F (11706)

Sci - Chem
Sept. 67

340,149

KOVALSKIY, A. K.
UMANSKIY, YA. S.

Zhurnal fizicheskoi khimii, vol. 20, No. 8, 4 figures,
2 tables, 1500 words; 1946. pp 769-772

X-Ray Investigation of Pseudobinary Systems.

KT4126
AECTE 2512

Bratcher Trans, Order No. 2173, \$2.65.

Zhur, Sig Khim Vol 20, # 8, pp 773-778 (1946)
9, pp 929-933 "

The Interaction of Monocarbides of Niobium, Tantalum,
+ Niobium (X-Ray Analysis) - Study in Region of
Ternary System NbC-TiC-WC.

Buletin 1714
pp 773-778

A.E. Korolov
Ya.S. Umanetsky

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AE-7A
513

Adsorption of Oxygen on Iron and the Effect of the
Adsorbed Oxygen on the Properties of Iron
Electrode, by P. Burshtein, N. Shumilova,
K. Gol'bert, 19 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XX, No 8,
1946, pp 789-801.

Sci Trans Center
RT-2046

Scientific - Chemistry Feb 55 CTS/DEX

21,483

Dependence of Viscosity of Pure Liquids Upon
Temperature, by G. M. Panchenkov.
RUSSIAN, per, Zh. Fiz. Khim, Vol 20, No 8, 1946,
pp 811-833.
NLL 5828.4F (11822)

Sci - Chem

Aug. 67

Sept.

338,645

The Role of the ~~+~~ Interphase Solution in the
Kinetics of the Solution of Salts, by A. B.
Zdanovskiy, 14 pp.

RUSSIAN, Far, Zhur Fiz Khim, Vol XX, 1946, pp
869-880.

SLA R-2791

Sci

Jul 59

92, 447

Research in the Region of Concentrated Solutions,
by E. Ya. Gorenbein.

Full translation.

RUSSIAN, no par, Zhurn Fiz Khim, USSR, Vol XX, 1946,
pp 881-894.

AEC Tr 1451

Scientific - Chemistry, concentrated solutions

Dec 52 CTS/DBX

The Diffusion of Electrolytes in Capillaries, by O. K. Davtyan.

RUSSIAN, per, Zhur Fiz Khim, Vol XX, No 9, 1946,
pp 1043-1047.

Assoc Tech Sv *TR*
\$3.95

Sci - Physics
Aug 57

RJ. 778

51, 536

260 2nd Trk Cr
63432

The Photoconductivity of Thin Films of Organic
Dyes in a Solid State, by A. T. Vartanyan, 36 pp

RUSSIAN, per, Zhur Fiz Khim, Vol XX, 1946, pp
1065-1080.

AEC Tr 312

Sci - Chem

Oct 58

Catalytic Hydrogenation of Organic Compounds in the
Liquid Phase, II. Kinetics of the Hydrogenation of
Oleic Acid, by V. I. Goldanskiy, S. Yu. Elovich, 1 p.

RUSSIAN, partial trans, per, Zhur Fiz Khim, 1946, Vol XX,
pp 1085-1093.

SLA 59-20896

Sci
Mar 60
Vol 3, No 1

The Kinetics of Thermal Decomposition of
Silver Oxalate, by B. V. Yerosfeyev, et al.
RUSSIAN, per, Zh Fiz Khim, Vol XX, No 10,
1946, pp 1103-1112.
NASA TT F-10,415

Sci-Phys
Dec 66

316,474

Effective Forces as a Basis for the Classification of Solutions, by V. K. Semenchko.
RUSSIAN, per, Zh. Fiz. Khim, Vol 20, No 10,
1946, pp 1149-1160.
NLL 5828.4F (11824)

Sci - Chem
Sept. 67

340,147

The Behaviour of an Iron Electrode in Various Solutions,
by A. I. Krasil'shchikov

RUSSIAN, per, Zhur Fiz Khim, Vol XX, 1946, pp 1187-1198.

Nat'l Res Council Canada TF 229

Scientific - Physics
Jul CTS/DEK Price 0.25

16,466

Zhur Fiz Khim XX, 1209-11, (1946)

Calculation of Normal Electrode Potentials From
Spectroscopic and Thermochemical Data

E. N. Gapon

(Wilson Dam 2816)

SLA TR R-2154

The Chemical Mechanism of the Reaction of Burning
Hydrogen, 9 pp. by V. N. Kondratiev

2001 FID 1000
RUSSIAN, per, J. Phys. Chem., (USSR), 20, 1231-37
(1946).

Avail Armed Services Tech
Info Agency as ATI 83148

1540
Scientific - Chemistry

Catalytic Recombination of Active Centers as Applied
to Measurement of Their Concentration in the Zone
of the Reaction, 13 pp. by E. I. Kondratieva and
V. N. Kondratiev

ZHUR-FIZ-KHIM

RUSSIAN, per, J. Chem. Phys. 20, 1239-47, (1946)

Avail Armed Services Tech
Agency Info as ATZ 83148

Scientific - Chemistry, Physics

1534

The Measurement of the Coefficient of the Atomic
Hydrogen Recombination at Various Surfaces by the
Method of Determination of the Lower Ignition Limit
of the $2H_2 - O_2$ Mixture, 15 pp. by A. B. Malbandian
and S. M. Shubina

211UR-F12-KH/M

RUSSIAN, per, I. Chem. Phys. (USSR), 20, 1249-58,
(1946).

Avail Armed Services Tech
Infor Agency as ATI 83148

Scientific - Chemistry, Physics

1535

Zhur Fiz Khim Vol 20, page 1259-82 (1946)

The Photochemical Oxidation of Hydrogen. II. Reaction
at High Temperatures. III. Theory of Interaction of
Chains. by A. B. Nalbandyan.

AEC Trans (avail. Brookhaven)

RT-1945

The Photochemical Oxidation of Hydrogen II. Reaction
at High Temperatures, 20 pp. by A. B. Malbandian

from the
RUSQIAN, per, J. Phys. Chem. (USSR) 20, 1259-72
(1976).

Avail Armed Services Tech Info
Agency as ATI 83148

Scientific- Chemistry, Physics

1544

The Photochemical Oxidation of Hydrogen III a
Contribution to the Theory of the Interaction of
Chains, 14 pp. by A. B. Halbandian

Chem. F. - 1211m
RUSSIAN, per, J. Phys. Chem. (USSR) 20, 1273-82
(1946)

Avail Armed Services Tech Info
Agency as ATI 83148

Scientific - Chemistry, Physics

1543

The Action of Nitrogen Dioxide on the Low Temperature
Region of Ignition of Hydrogen and Oxygen Mixtures,

2 pp. by A. B. Nalbandian

ZHUR-FIZ-KHIM

RUSSIAN, per, J. Phys. Chem. (USSR) 20, 1283-85
(1946)

Avail Armed Services Tech
Info Agency as ATI 83148

NLL M. 2601

1533

Scientific - Chemistry

Limiting Diameters of a Stable Detonation
of a Mixture of Hydrogen Peroxide with
Methyl Alcohol and Perchloric Acid with
Ethyl Alcohol, by R. Kh. Kurbangalina,
6pp.

RUSSIAN, per, Zhurnal Fizicheskoi Khimii,
Vol 22, 1948, No 1, pp 49-51.
CFSTI TT-64-19353.

323,215

Sci - Chemistry
Apr 67

On the Polyene Absorption Spectra Relationship
Between Structure and Position of the Absorption
Maximum, by G. V. Troitskii.

RUSSIAN, per, Zh. Fiz. Khim., Vol 22, No 10,
1948, pp 1164-1171.

NLL 5828.4F (11712)

Sci - Chem

Sept. 67

340,143

The Slow Oxidation of Hydrogen and the Third Ignition
Limit, 21 pp. by V. V. Voedodsky

~~ZHUR-FIZ-KHIM~~

RUSSIAN, per, ~~J. Phys. Chem~~ (USSR), 20; 1285-98. (1946).

Avail Armed Services Tech
Info Agency as ATI 83148

1525

Scientific - Chemistry, Physics

Thermal Reaction of Acetylene, by E. A. Blumberg,
D. A. Frank-Kamenetskii, 30 pp.

RUSSIAN, per, Zhur. Fiz Khim., Vol XX, No. 11,
1946, pp 1301-1317.

SLA Tr R-1228

Sci

Jun 58

65, 895

Thermal Reactions of Acetylene. III. Kinetic
Theory of Acetylene Formation in the Thermal De-
composition of Methane, by M. N. Znamenskiy, D. A.
Frank-Kamenetskiy, 6 pp.

Chem. Fiz. Khim.
RUSSIAN, *Pr.*, Vol XX, No 11, 1946, pp 1319-1323.

Assoc Tech Serv 09J16R

HTS 85-834

SLA 62-12170

Jul 58

70,009

Bogoyavlenskaya, M. L. and Kovalskii, A. A.
CONCERNING THE INITIATION OF HOMOGENEOUS
GAS REACTION BY SOLID CATALYSTS. [1961] 16p.
12 refs. [DSIR LLU] M. 2602.
Order from OTS or SLA \$1.60

61-23275

Trans. of Zhur[nal Fizicheskoi Khimii] (USSR) 1946,
v. 20 [no. 11] p. 1325R.

DESCRIPTORS: *Gases, *Chain reactions, Starting,
Catalysts, Chemical reactions, Solids.

(Chemistry--Physical, TT, v. 6, no. 4)

61-23275

I. Bogoyavlenskaya, M. L.
II. Kovalskii, A. A.
III. DSIR LLU M. 2602

177711

Office of Technical Services

Avramenko, L. I., Gerber, M. I., Neiman, M. B.,
and Shushunov, V. A.

A KINETIC METHOD OF PHYSICO-CHEMICAL
ANALYSIS. I. KINETICS OF REACTION BETWEEN
LEAD-SODIUM ALLOYS AND ETHYL CHLORIDE
VAPORS. [1963] [30p] (3 figs. omitted) 15refs
Order from OTS or SLA \$2.60

63-18238

Trans. of [Zhurnal Fizicheskoi Khimii] (USSR) 1946,
v. 20, no. 11, p. 1347-1358.

DESCRIPTORS: *Reaction kinetics, *Lead alloys,
*Sodium alloys, *Ethyl radicals, *Chlorides, Vapors,
Catalysis

(Chemistry--Physical, TT, v. 10, no. 11)

63-18238

1. Title: Ethyl chlorides
2. Title: Tetraethyl lead
- I. Avramenko, L. I.
- II. Gerber, M. I.
- III. Neiman, M. B.
- IV. Shushunov, V. A.
- V. Title: Kinetics...

Office of Technical Services

(NY-4842/5)

Combustion of Methyl Nitrate Vapors, by Ya. B.
Zel'dovich, Yu. Kh. Shanlov, 13 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XX, No 11, 1946,
pp 1359-1362.

JPRS 7044

Sci - Chem

Dec 60

134, 195

(NY-4842)

The Thermal Decomposition of Barium Azide at
Pressures Up to 45,000 KG/CM², by Yu. N. Ryabinin,
9 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XX, 1946,
pp 1363-1366.

JPRS 73⁰9

Sci - Chem

Jan 61

138,712

The Effect of Physical Structure and State of
Aggregation on the Sensitivity of Explosives, by
A. Ya. Apin, V. K. Bobolev, 4 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XX, 1946,
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Sci - Phys

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JPRS 7444

Sci - Phys, Chem
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29 pp.

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pp 1381-1389.

JPRS 7513

Sci - Chem

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JPRS 7512

Sci - Phys

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HET VERLOOP VAN HETEROGENE KATALYTISCHE
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GEISOLEERD SYSTEEM (Progress of Heterogeneous
Catalytic Reactions in a Stream. I. General Equations
A Heat-insulated System). tr. by G. J. M. Fritschy.
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Order from OTS or ETC \$1.87

61-17672

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1946,
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DESCRIPTORS: *Catalysis, Fluid flow, *Diffusion,
Heat, Separation, Theory.

61-17672

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Temkin, M. and Levich, V.
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OPPERVLAKKEN (Adsorption Equilibrium on
Heterogeneous Surfaces) tr. by G.J.M. Fritschy.
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Order from OTS or ETC \$2.43

61-17663

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1946,
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DESCRIPTORS: Solids, Surfaces, Gases, *Adsorption,
*Chemical equilibrium, Catalysts.

61-17663

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DESCRIPTORS: *Metallic compounds, *Carbonyl
radicals, Stability, Copper compounds, Chemical bonds.

(Chemistry--Physical, TT, v. 10, no. 8)

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I. Pospelkov, D. A.

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AMC F-TS-5931-RE

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SLA/R-2631

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The Solubility of Potassium Hexafluorosilicate

I. G. Ryss (Dept Gen Chem, Dnepropetrovsk Metallurgical
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Mechanism of the Inhibitor Action on Solution
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S. I. Raikhshmeim, 14 pp.

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AEC Tr-4758

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No 2, 1947, pp 257-260.

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Vol 21, #3, pp 331-6 (1947)

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Alkaline Solutions

I. Platonova +
S. Lenina

Chem. Abstr. Ser. Chem. # 27-39

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A. Kryukova.

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NLL RTS 3714

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ETHYLENE-CARBON DIOXIDE AND ETHYLENE-
NITROGEN SYSTEMS, tr. by J. H. Gallant. 27 Dec 60
[9]p. 11 refs. ARGMA Trans. Nr. 114-60.
Order from OTS or SLA \$1.10

61-15356

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v. 21, no. 3 [p. 355-359].

DESCRIPTORS: *Ethylenes, *Carbon dioxide, *Nitrogen,
Chemical equilibrium.

The ethylene-nitrogen and ethylene-carbon dioxide systems were studied at 0° and up to 7000 kg/cm². The ethylene-nitrogen system remained homogeneous throughout the whole temperature and pressure range. The ethylene-carbon dioxide system has a crystal-liquid equilibrium. The volatilities and molar volumes of liquid ethylene were calculated up to 7000 atm. An
(Chemistry--Physical, TT, v. 6, no. 6) (over)

61-15356

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176614

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Investigation of Their Properties, by M. Ye.
Shishnyashvili, V. A. Kargin, A. L.
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pp 391-396.

SLA 60-17723

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I, II, III., by V. K. Semchenko,
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pp 612-622; 707-714; 1387-1401,

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Scientific - ~~Chemistry~~, Physics Jul 55 CTS